



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

November 23, 2015

David Chi
Regulatory Affairs Manager
Monsanto Company
800 North Lindbergh Blvd.
St. Louis, MO 63167

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment –To extend the expiration date, revise the label to add a website, delete the patent information, correct a reference to another product and make other minor changes.
Product Name: MON 89034 x TC1507 Seed Blend
EPA Registration Number: 524-612
Application Date: May 1, 2015
OPP Decision Number: 505090

Dear Mr. Chi:

The amended labeling referred to above, submitted in connection with registration under Sec. 3(c)(5) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable and the expiration date of the registration has been hereby extended to Nov. 30, 2018.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with it.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

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Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Ann Sibold of my team by phone at (703) 305-6502 or via email at sibold.ann@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'Alan Reynolds', with a stylized, flowing script.

Alan Reynolds, Team Leader
Microbial Pesticide Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosure

Plant-Incorporated Protectant Label

MON 89034 × TC1507 Seed Blend

Insect-Protected, Herbicide-Tolerant Corn with an Interspersed Refuge

(Alternate Brand Names: Genuity® PowerCore™ RIB Complete®)†

(OECD Unique Identifier: MON-89034-3 × DAS-01507-1)

Active Ingredients:

Bacillus thuringiensis Cry1A.105 protein and the genetic material necessary for its production (vector PV-ZMIR245) in corn event MON 89034 (OECD Unique Identifier: MON-89034-3) ≤ 0.0026%*

Bacillus thuringiensis Cry2Ab2 protein and the genetic material necessary for its production (vector PV-ZMIR245) in corn event MON 89034 (OECD Unique Identifier: MON-89034-3) ≤ 0.0053%*

Bacillus thuringiensis Cry1F protein and the genetic material necessary for its production (vector PHP8999) in corn event TC1507 (OECD Unique Identifier: DAS- 01507-1)..... ≤ 0.0012%*

Other Ingredients:

The marker protein, Phosphinothricin Acetyltransferase (PAT), and the genetic material necessary for its production (vector PHP8999) in corn event TC1507(OECD Unique Identifier: DAS- 01507-1)..... ≤ 0.00045%*

*Maximum percent (wt/wt) of dry forage

† Genuity® PowerCore™ RIB Complete® seed with this refuge configuration contains 95% MON 89034 x TC1507 mixed with at least 5% non-B.t. corn within a single lot of seed.

KEEP OUT OF REACH OF CHILDREN

CAUTION

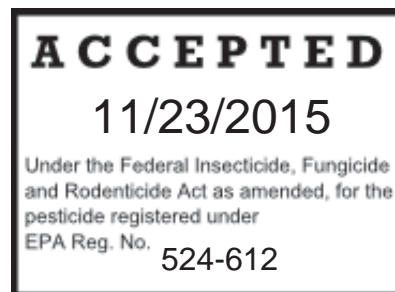
EPA Registration No. 524-612

EPA Establishment No. 524-MO-002

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DIRECTIONS FOR USE

It is a violation of Federal law to use this seed in any manner inconsistent with this labeling. Information regarding commercial production must be included in the Technology Use Guide and/or Insect Resistance Management (IRM) Grower Guide.

MON 89034 x TC1507 Seed Blend can be used to protect corn plants from leaf, stalk, and ear damage caused by lepidopteran corn pests listed on this label. To help preserve the effectiveness of *B.t.* corn technologies, growers planting MON 89034 x TC1507 Seed Blend are required to follow an Insect Resistance Management (IRM) Plan.

Grower agreements will specify that growers must adhere to the refuge requirements that will be described on the bag or bag-tag for MON 89034 x TC1507 Seed Blend corn or other applicable product use documents.

Sales of corn hybrids that contain Monsanto's *B.t.* corn plant-incorporated protectants must be accompanied by information on planting, production, and insect resistance management. This information may appear on either an IRM Grower Guide or on the corn seed bag or bag-tag.

Corn seed bags or bag-tags for products containing MON 89034 x TC1507 Seed Blend must include the refuge requirement.

INSECT RESISTANCE MANAGEMENT

Growers are instructed to read information on insect resistance management in the IRM Grower Guide or the bag or bag-tag.

This product is a seed mixture containing up to 95% MON 89034 × TC1507 and a minimum of 5% *non-B.t.* seed that when planted creates an interspersed refuge within the field. There are no requirements for a separate structured refuge for MON 89034 × TC1507 Seed Blend corn when planted in the U.S. corn growing area, including Alaska and Hawaii, because the refuge seed is contained within the bag/container.

The interspersed refuge can only be used by planting seed corn specifically generated by qualified seed producers/conditioners licensed by the registrant. The seed producer must ensure a minimum of 5% *non-B.t.* refuge seed is included with the MON 89034 × TC1507 in each lot of seed corn.

The 95/5% MON 89034 x TC1507 Seed Blend product may be planted in cotton growing areas; however, planting the 95/5% MON 89034 x TC1507 Seed Blend in cotton growing areas still requires planting an additional 20% structured refuge (block, strips, or border) as defined for MON 89034 x TC1507 EPA Registration No. 524-585. **The interspersed refuge option for MON 89034 x TC1507 Seed Blend does not alone comply with refuge requirements in cotton growing areas.**

Additional refuge requirements in the cotton-growing area where corn earworm is a significant pest

In the cotton-growing area, as defined below, MON 89034 × TC1507 Seed Blend requires the planting of an additional 20% structured refuge (i.e. 20 acres of non-*B.t.* corn for every 80 acres of MON 89034 × TC1507 Seed Blend planted).

The 20% refuge must be planted with corn hybrids that do not contain *B.t.* technologies for the control of lepidopteran pests.

The 20% refuge and the MON 89034 × TC1507 Seed Blend should be sown on the same day, or with the shortest window possible between planting dates to ensure that corn root development is similar among varieties. The 20% refuge may be planted as an in-field or adjacent (e.g., across the road) refuge or planted as a separate block that is within 1/2 mile of the MON 89034 × TC1507 Seed Blend field. In-field refuge options include blocks, perimeter strips (i.e., strips around the field), or in-field strips. If perimeter or in-field strips are implemented, the strips must be at least 4 consecutive rows wide. The refuge can be protected from lepidopteran damage by use of non-*B.t.* insecticides if the population of one or more target pests of MON 89034 × TC1507 Seed Blend in the refuge exceeds economic thresholds. Insecticide treatments for control of insects listed on this label may be applied only if economic thresholds are reached for one or more of these target pests. Economic thresholds will be determined using methods recommended by local or regional professionals (e.g., Extension Service agents, crop consultants). Microbial *B.t.* insecticides must not be applied to the field containing a seed mix interspersed refuge.

The cotton-growing area requiring the additional 20% refuge consists of the following states: Alabama, Arkansas, Georgia, Florida, Louisiana, North Carolina, Mississippi, South Carolina, Oklahoma (only the counties of Beckham, Caddo, Comanche, Custer, Greer, Harmon, Jackson, Kay, Kiowa, Tillman, and Washita), Tennessee (only the counties of Carroll, Chester, Crockett, Dyer, Fayette, Franklin, Gibson, Hardeman, Hardin, Haywood, Lake, Lauderdale, Lincoln, Madison, Obion, Rutherford, Shelby, and Tipton), Texas (except the counties of Carson, Dallam, Hansford, Hartley, Hutchinson, Lipscomb, Moore, Ochiltree, Roberts, and Sherman), Virginia (only the counties of Dinwiddie, Franklin City, Greensville, Isle of Wight, Northampton, Southampton, Suffolk City, Surrey, and Sussex) and Missouri (only the counties of Dunklin, New Madrid, Pemiscot, Scott, and Stoddard).

Corn Insects Controlled or Suppressed

European corn borer (ECB)	<i>Ostrinia nubilalis</i>
Southwestern corn borer (SWCB)	<i>Diatraea grandiosella</i>
Southern cornstalk borer (SCSB)	<i>Diatraea crambidoides</i>
Corn earworm (CEW)	<i>Helicoverpa zea</i>
Fall armyworm (FAW)	<i>Spodoptera frugiperda</i>
Stalk borer	<i>Papaipema nebris</i>
Lesser corn stalk borer	<i>Elasmopalpus lignosellus</i>
Sugarcane borer (SCB)	<i>Diatraea saccharalis</i>
Western bean cutworm (WBC)	<i>Richia albicosta</i>
Black cutworm	<i>Agrotis ipsilon</i>

Genuity[®] PowerCore[™] RIB Complete[®] is a product of Monsanto's and Dow AgroSciences' research programs, offering unique genetic characteristics for specific grower needs and may be protected by one or more U.S. patents found at the following web page: www.monsantotechnology.com